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SERIAL NUMBER FLING DATE FIRST NAMED INVENTOR RITHREST PROBLET NO. 07/577,437 09/04/90 CALLEON RITHREST PROBLET NO. 10/7577,437 09/04/90 CALLEON RITHREST NAMED INVENTOR RITHREST PROBLET NO. 10/7577,437 09/04/90 CALLEON RITHREST NAMED INVENTOR RITHREST PROBLEM RESTOR NAMED INVENTOR RITHREST NAM

STE. 2500, ONE FINANCIAL CENTER BOSTON, MA 02111-2658	ART UNIT PAPER NUMBER
BUSTON, MA UZITI 2000	06/16/92 DATE MAILED:
nissis a communication from the examinaring multiplied your approximation commissioner of Parients and Trade Marks.	
. This application has been examined Responsive to comm	unication filed on $\frac{2/21/92}{}$ $\Box$ This action is made final.
A shortened statutory period for response to this action is set to expire	3 month(s), days from the date of this letter.
Failure to respond within the period for response will cause the application	month(s), days from the date of this letter.
Part I THE FOLLOWING ATTACHMENT(8) ARE PART OF THIS ACT	TION:
<ol> <li>Notice of References Cited by Examiner, PTO-892.</li> <li>Notice of Art Cited by Applicant, PTO-1449.</li> <li>Information on How to Effect Drawing Changes, PTO-1474.</li> </ol>	<ol> <li>Notice re Patent Drawing, PTO-948.</li> <li>Notice of informal Patent Application, Form PTO-152.</li> <li></li></ol>
Part II. SUMMARY OF ACTION	
1. Ctaims 1 — 26	are pending in the application.
Of the above, claims	are withdrawn from consideration.
2. Claims	have been cancelled.
s. \$1 claims 1-4 and 23-26	are allowed.
	are rejected.
s. At Claims 6-20 and 22	are objected to.
	are subject to restriction or election requirement.
7.   This application has been filed with informal drawings under 3.	
8.	·
9. The corrected or substitute drawings have been received on _ are _ acceptable not acceptable (see explanation or No	. Under 37 C.F.R. 1.84 these drawings otice re Patent Drawing, PTO-948).
<ol> <li>The proposed additional or substitute sheet(s) of drawings, file examiner.</li> <li>disapproved by the examiner (see explanation).</li> </ol>	
11.   The proposed drawing correction, filed on	_, has been 🗀 approved. 🗆 disapproved (see explanation).
12. Acknowledgment is made of the claim for priority under U.S.C.	119. The certified copy has Deen received not been received
been filed in parent application, serial no	; filed on
13. Since this application appears to be in condition for allowance accordance with the practice under Ex parte Quayle, 1935 C.D.	

Serial No. 577,437

Art Unit 2603

35 U.S.C. § 101 reads as follows:

"Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter or any new and useful improvement thereof, may obtain a patent therefore, subject to the conditions and requirements of this title".

2. Claims 5 and 21 are rejected under 35 U.S.C. § 101 because the claimed invention is directed to non-statutory subject matter.

The basis of this rejection is set forth in the two-step test given by <u>In re Freeman</u> 197 USPQ 464 (CCPA 1980), as modified by <u>In re Walter</u> 205 USPQ 397 (CCPA 1982), and <u>In re Abele</u> 214 USPQ 682 (CCPA 1982).

The first step is to determine whether or not the claims directly of indirectly recite a mathematical algorithm. As can be seen by claim 5, claim 5 indirectly recites a mathematical algorithm by setting forth the step of "using a routing protocal to automatically predetermine---". As found on page 3, the claimed predetermining step is a mathematical algorithm since it is recited that "routing protocols are often associated with their own routing algorithms". Therefore, the claim indirectly recites a mathematical algorithm.

Now, the claim should be viewed without the mathematical algorithm to determine if what remains is otherwise statutory.

In re Abele 214 USPQ 682, 686 and In re Gram 12 USPQ 1824, 1827.

With the mathematical algorithm taken out, what is remaining

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in the claims is a field of use limitation at lines 1-10. The Court has held that a field of use limitation cannot make a claim statutory by "attempting to limit the use of the formula to a particular technological environment". <u>Diamond v. Diehr</u> 209 USPQ 1, 10 (S CT 1981). Thus, applicant's field of use limitation fails to render the claim statutory.

A similar analog applies to the claim 21, with the determining step being an algorithm and the rest of the claim being a field of use limitation.

- 3. Claims 6-20, and 22 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. Claims 1-4 and 23-26 are allowable over the prior art of record.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Min Jung whose telephone number is (703) 305-4363.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-4750.

MJM. JUNG:RWM June 10, 1992 DOUGLAS W. OLMS SUPERVISORY PATENT EXAMINER ART UNIT 263

Douglas W. Chus